	Application No.	Applicant(s)
Notice of Allowability	10/815,662	KOJIMA ET AL.
	Examiner	Art Unit
	Allen C. Ho	2882
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to application filed on 02 April 2004.		
2. The allowed claim(s) is/are 22-34.		
3. The drawings filed on <u>02 April 2004</u> are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
 Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Summary Paper No./Mail Dat 8), 7. ☑ Examiner's Amendn	e
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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or 1. additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Page 96, line 15, "4f" has been replaced by --4g--.

Allowable Subject Matter

- 2. Claims 22-34 are allowed.
- The following is an examiner's statement of reasons for allowance: 3.

With regard to claims 22 and 28-34, the prior art fails to teach or fairly suggest a radiological imaging apparatus comprising a counter that uses the γ-ray detection signals output from three or more of the plurality of radiation detectors within a pre-selected period of time and the positional information about the three or more radiation detectors that have output the γ-ray detection signals so as to determine which of the three or more radiation detectors have detected un-scattered y-rays as claimed.

With regard to claims 23 and 24, the prior art fails to teach or fairly suggest a radiological imaging apparatus comprising a counter that, when γ -ray detection signals are output from three or more of the plurality of radiation detectors within a pre-selected period of time, uses the positional information about at least two of the radiation detectors, the energy detection values of at least two of the radiation detectors, and the positional information about radiation detectors

that have detected one of a pair of the y-rays, so as to determine the attenuation sequence, initial incidence position, and initial incidence direction of the remaining one of the pair of y-rays as claimed.

With regard to claims 25-27, the prior art fails to teach or fairly suggest a radiological imaging apparatus comprising collimators positioned in front of the plurality of radiation detectors and a counter that, when detection signals are output from three or more of the plurality of radiation detectors within a pre-selected period of time, uses the positional information about three or more of the radiation detectors and the energy detection values of three or more of the radiation detectors in order to determine the attenuation sequence, initial incidence position, and initial incidence direction of the y-rays as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:
 - Wollenweber (U. S. Patent No. 6,590,213 B2) disclosed a system for estimating (1) scatter in a PET scanner.
 - Yamakawa (U. S. Pub. No. 2003/0075685 A1) disclosed a nuclear medical (2) diagnostic apparatus.

Application/Control Number: 10/815,662 Page 4

Art Unit: 2882

(3) Kurfess et al. (U. S. Patent No. 6,528,795 B2) disclosed a Compton scatter

imaging device.

(4) Daniel (U. S. Patent No. 6,484,051 B1) disclosed a coincident multiple Compton

scatter nuclear medical imager.

(5) Tümer (U. S. Patent No. 5,821,541) disclosed an apparatus for radiation detection.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Allen C. Ho whose telephone number is (571) 272-2491. The

examiner can normally be reached on Monday - Friday from 8:00 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Edward J. Glick can be reached at (571) 272-2490. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Allen C. Ho

allen C. Ho

Patent Examiner

Art Unit 2882